



## SEQUENCE LISTING

<110> Echelard, Yann  
Meade, Harry M.  
Eichner, Wolfram  
Sommermeyer, Klaus

<120> TRANSGENICALLY PRODUCED PLATELET DERIVED  
GROWTH FACTOR

<130> 10275-120001

<140> 09/884,586

<141> 2001-06-19

<150> 60/212,406

<151> 2000-06-19

<160> 8

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 635

<212> DNA

<213> Homo sapiens

<400> 1

ctcgagaatt	cgagctcgcc	cggggatacct	ctagagtcga	caccatgaat	cgctgctggg	60
cgctcttctt	gtctctctgc	tgtacctgc	gtctggtcag	cgccgagggg	gaccccatc	120
ccgaggagct	ttatgagatg	ctgagtgatc	actcgatccg	ctcctttgat	gatctccaac	180
gcctgctgca	cggagacccc	ggagaggaag	atggggccga	gttggacctg	aacatgacct	240
gtctccactc	tggaggcgag	ctggagagct	tggctcgtgg	aagaaggagc	ctgggttccc	300
tgaccattgc	tgagccggcc	atgatcgccg	agtgcgaagac	gcgcaccgag	gtgttcgaga	360
tctcccggcg	cctcatagac	cgcaccaacg	ccaacttctt	ggtgtggccg	ccctgtgtgg	420
aggtgcagcg	ctgctccggc	tgttgcaaca	accgcaacgt	gcagtgcgcg	cccaccaggg	480
tgcagctgcg	acctgtccag	gtgagaaaga	tcgagattgt	gcggaagaag	ccaatcttta	540
agaaggccac	ggtgacgctg	gaagaccacc	tggcatgcaa	gtgtgagaca	gtggcagctg	600
cacggcctgt	gacctgataa	ccggaagctc	tcgag			635

<210> 2

<211> 23651

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(23651)

<223> n = A,T,C or G

<400> 2

gtcgactcta	gagggacagc	cccccccaaa	agcccccagg	gatgtaatta	cgctccctccc	60
ccgctagggg	cagcagcgag	ccgcccgggg	ctccgctccg	gtccggcgct	ccccccgcac	120
ccccgagccg	gcagcgctgc	gggacagccc	gggcacgggg	aaggtggcac	gggatcgctt	180
tcctctgaac	gcttctcgct	gctctttgag	cctgcagaca	cctgggggga	tacggggaaa	240
aagcttttag	ctgaaagaga	gatttagaat	gacagaatca	tagaacggcc	tgggttgcaa	300

aggagcacag	tgtcatcca	gatccaaccc	cctgctatgt	gcaggggtcat	caaccagcag	360
cccaggtgc	ccagagccac	atccagcctg	gccttgaatg	cctgcaggga	tggggcatcc	420
acagcctcct	tgggcaacct	gttcagtgcg	tcaccaccct	ctgggggaaa	aactgcctcc	480
tcataatcaa	cccaaaccct	cctgtctca	gtgtaaagcc	attccccctt	gtcctatcaa	540
gggggagttt	gctgtgacat	tgttggtctg	gggtgacaca	tgtttgcca	ttcagtgcat	600
cacggagagg	cagatcttgg	ggataaggaa	gtgcaggaca	gcatggacgt	gggacatgca	660
ggtgttgagg	gctctgggac	actctccaag	tcacagcggt	cagaacagcc	ttaaggataa	720
gaagatagga	tagaaggaca	aagagcaagt	taaaacccag	catggagagg	agcacaacaaa	780
ggccacagac	actgctggtc	cctgtgtctg	agcctgcatg	tttgatgggt	tctggatgca	840
agcagaagg	gtggaagagc	ttgcctggag	agatacagct	gggtcagtag	gactgggaca	900
ggcagctgga	gaattgccat	gtagatgttc	atacaatcgt	caaatcatga	aggctggaaa	960
gcctccaaga	tccccaaagc	caaccccaac	ccaccaccg	tgccactgg	ccatgtccct	1020
cagtgccaca	tccccacagt	tcttcatcac	ctccagggac	ggtgaccccc	ccacctccgt	1080
gggcagctgt	gccactgcag	caccgctctt	tggagaaggt	aaatcttgct	aaatccagcc	1140
cgaccctccc	ctggcacaac	gtaaggccat	tatctctcat	ccaactccag	gacggagtca	1200
gtgaggatgg	ggctctagag	ggacagcccc	cccccaaagc	ccccagggat	gtaattacgt	1260
ccctcccccg	ctagggggcag	cagcgagccg	cccggggctc	cgctccgggt	cggcgctccc	1320
cccgcatccc	cgagccggca	gcgtgcgggg	acagcccggg	cacggggaag	gtggcacggg	1380
atcgctttcc	tctgaacgct	tctcgctgct	ctttgagcct	gcagacacct	ggggggatac	1440
ggggaaaaag	ctttaggtcg	aaagagagat	ttagaatgac	agaatcatag	aacggcctgg	1500
gttgcaaagg	agcacagtgc	tcatccagat	ccaacccct	gctatgtgca	gggtcatcaa	1560
ccagcagccc	aggctgccc	gagccacatc	cagcctggcc	ttgaatgcct	gcagggatgg	1620
ggcatccaca	gcctccttgg	gcaacctgtt	cagtgcgtca	ccacctctg	ggggaaaaac	1680
tgcctcctca	tatccaaccc	aaacctcccc	tgtctcagtg	taaagccatt	cccccttgct	1740
ctatcaagg	ggagtttgct	gtgacattgt	tggctctggg	tgacacatgt	ttgccaattc	1800
agtgcacac	ggagaggcag	atcttgggga	taagggaagt	caggacagca	tggacgtggg	1860
acatgcaggt	gttgagggct	ctgggacact	ctccaagtca	cagcgttcag	aacagcctta	1920
aggataagaa	gataggatag	aaggacaaag	agcaagttaa	aaccagcat	ggagaggagc	1980
acaaaaaggc	cacagacact	gctgggtccct	gtgtctgagc	ctgcatgttt	gatggtgtct	2040
ggatgcaagc	agaaggggtg	gaagagcttg	cctggagaga	tacagctggg	tcagtaggac	2100
tgggacaggc	agctggagaa	ttgccatgta	gatgttcata	caatcgtcaa	atcatgaagg	2160
ctggaaagcc	tccaagatcc	ccaagaccaa	ccccaaccca	cccaccgtgc	ccactggcca	2220
tgtccctcag	tgccacatcc	ccacagttct	tcatcacctc	cagggacggg	gaccccccca	2280
cctccgtggg	cagctgtgcc	actgcagcac	cgctcttttg	agaaggtaaa	tcttgctaaa	2340
tccagcccga	ccctccccctg	gcacaacgta	aggcttatat	ctctcatcca	actccaggaa	2400
cggagtgcag	gggatgggg	ctctagagga	tccctcgacc	tgcagggtcaa	cggatcacaa	2460
caaactggaa	aattcttcaa	gagaagaata	ccagaccacc	ctacctgctt	cctgagaaat	2520
ctgtttgctg	ctcagaagca	acagttagaa	ccagacatgg	aacaacagac	tggttccaaa	2580
tcaggaaagg	agtatgtcaa	ggctgtatat	cgtcaccctg	attatttaac	ttatatgcat	2640
agtacataat	acaaaatgcc	aggctggatg	aatcgcaagc	tggaatcaag	atttctggga	2700
gaaatatcaa	taaacgagat	acaaagatac	accacactta	tggcagaaaa	ctaagaagaa	2760
ctaaagagcc	tcttgatgaa	agtgaagag	gagagtgaag	aagccagctt	aaaacccaac	2820
attcaaaatc	aagatcatca	tttcatggca	aataaatggg	gaaacaatgg	aaacagtgag	2880
agactttatt	ttcttgggct	ccaaaatcac	tgcagattgt	gactacagcc	atgattaaaa	2940
gatgcttgct	ccttggaaga	gaagctatta	ccaaactaga	aagcatatta	aaaagcagag	3000
acgttacttt	gctgactaag	ttctgtctag	tcaaacctat	ggtttttcca	gtagtcatat	3060
atggatgtga	gttgaactat	aaagaaagct	gagcaccaaa	gaattgatgc	ttttgaaatt	3120
tgggtgttga	gaagtctctt	gagagtccct	tgaacctgca	aggagatcca	accagtccat	3180
cctaaaggaa	atcagtcctg	aatattcatt	ggaaggactg	atgctgaaat	tgaagattaa	3240
cgttttggac	tcacctaatg	cagaagagcc	aactcactag	aaaagacccc	atgttggcaa	3300
aaattgaagc	caggaagaga	agtgaatgac	agaggatgag	atggttggat	ggcatcggtg	3360
actgaatgga	ctgagtcctg	atcaagttcc	gggagacagc	aaaggacagg	gctgcctggg	3420
ctgctgcagt	ccatgggggt	gcaaagagtc	ggtctcaaat	gagtaactaa	acaacaacca	3480
agcagtagaa	aaataaataa	aatttgtctc	tgagatctca	gtacctcttt	ctgtgcatat	3540
ccgtctcctg	ttattgtact	ttgtcttctg	cttgtaataa	agctgtcctg	ttagtataat	3600
ctgtttgggt	cctctgaatt	cttttagcta	tcaaaaatgg	aaggtgatta	ttgtgcaatg	3660
tccacctctg	agtaatatat	agagaataaa	agaagggaga	aattatgtgc	aagttctctc	3720

tcatctcctg	cttctcattt	aaaagattct	acctcagtgg	gggctaaaac	tccacattta	3780
acagtagcaa	aaaccaatat	tccatagctt	cttaggaaac	cattttttat	actcttgtat	3840
gtaattacat	tcaagctcaa	aagcaaagaa	gtgattctgc	gttgggtgaag	gcccaccat	3900
agaaaagagg	aagaaaatag	gccacatact	gtgcttcccc	catagctcag	ttggtaaaga	3960
atctacctac	aatgcaggag	gcctgggctt	gatccctggg	taaggagat	cccctggaga	4020
aggaaatggt	aaccactcc	agtactcttg	cctgtaaate	ccatggacgg	aggagcctgg	4080
cagctacagc	cttgggggtg	caagagttgg	acatgattaa	caactaaacc	actgccacca	4140
ctccacatac	tgagtgtctc	ccagtggcac	tagtggtaaa	gaaccacctg	ccggtgcaga	4200
agacattaaa	gacactggct	ctatccctgc	ttgggaagta	gggaagatcc	cctagagagg	4260
gaaatagcaa	cccactccag	aattcttgcc	tggaaaatcc	catgaatgaa	gactggcggg	4320
ctgtagtaac	tgggggtcaca	aagagttaaa	catgatttag	caactaaaca	tcaccacatt	4380
aaaaaaatta	ccaccaaaat	agtcataatt	caggctaagg	ggaataatag	cactagtacc	4440
tgagagaact	ttctcagatt	ctctgtcaag	ttcttccttc	tctcatataa	ccagtagtct	4500
agtttacctc	atcagatatt	aactactcat	cgattctaaa	ttatctaatt	atgggggggg	4560
gcactacatt	gcattatatt	ttgtgtccat	tgactatcac	tcaatttatt	tataaaaaat	4620
tcatccatgt	tgtttctgtg	acagtaactc	attcacatta	attgtaatat	ctcattgcac	4680
tgtatactac	aattttattt	tacaaaatac	tattattcac	acttctgttg	attttaattt	4740
ggaacatcaa	caataacgtg	gctgagaagc	tcttttcttt	agtataattg	taaggatttc	4800
cttgatcaag	atttttacct	cttttctggg	ccaattgggtg	agagacagtc	ataaggaaat	4860
gctgtgttta	ttgcacaata	tgtaaagcat	cttcctgaga	aaataaaaagg	gaaatgttga	4920
atgggaagga	tatgctttct	tttgtattcc	ttttctgaga	aatcagaactt	tttcaccttg	4980
gccttggcca	ccaaaagcta	acaaataaag	gcataatgaag	tagccaaggc	cttttctagt	5040
tatatctatg	acactgagtt	catttcatca	tttattttcc	tgacttcctc	ctgggtccat	5100
atgagcagtc	ttagaatgaa	tattagctga	ataatccaaa	tacatagtag	atgttgattt	5160
gggttttcta	agcaatccaa	gacttgtatg	acagtaagat	gtattaccat	ccaacacaca	5220
tctcagcatg	atataaatgc	aaggatatatt	gtgaagaaaa	atttttaatt	atgtcaaagt	5280
gcttacttta	gaaggtcac	tatctgtccc	aaagctgtga	atatatatat	tgaaggtaat	5340
gaatagatga	agctaaccct	gtaaaaatga	gtagtgtgaa	atacaactac	aattatgaac	5400
atctgtcact	aaagaggcaa	agaaacttga	agattgcttt	tgcaaatggg	ctcctattaa	5460
taaaaagtac	ttttgaggtc	tggctcagac	tctattgtag	tacttagggg	aagaccctcc	5520
tctgtatgg	gctttcattt	tctttcttgc	ttccctcatt	tgcccttcca	tgaatactag	5580
ctgataaaca	ttgactataa	aagatatgag	gccaaacttg	agctgtccca	ttttaataaa	5640
tctgtataaa	taatatttgt	tctacaaaag	tattatctaa	ataaatgtta	ctttctgtct	5700
taaaatccct	caacaaatcc	ccactatcta	gagaataaga	ttgacattcc	ctggaatcac	5760
agcatgcttt	gtctgccatt	atctgacccc	tttctcttcc	tctcttctca	cctccatcta	5820
ctcctttttc	cttgcaattc	atgaccocga	ttcactgttt	gatttggctt	gcattgtgtg	5880
gtcttgagtt	gctgtcagct	gttatcaacc	ccatgaatga	tagtccacca	ggctctactg	5940
tccatgaaat	tttccagtc	agaatactgg	agtggattgc	atttcctact	ccatttgatt	6000
aatttagtga	cttttaaat	tctttttcca	tattcgggag	cctattcttc	cttttttagtc	6060
tatactctct	tcactcttca	ggtctaagg	atcatcgtgt	gcttgtttagc	ttgttacttt	6120
ctccattata	gcttaagcac	taacaactgt	tcaggttggc	atgaaattgt	gttctttgtg	6180
tggcctgtat	atctctgttg	tgtattagaa	tttaccocaa	gatctcaaag	accactgaa	6240
tactaaagag	acctcattgt	ggttacaata	atgtggggac	tgggccaaaa	cttccgtgca	6300
tcccagccaa	gatctgtagc	tactggacaa	tttcatttcc	tttatcagat	tgtgagttat	6360
tctgtttaaa	atgctcccca	gaatttctgg	ggacagaaaa	ataggaagaa	ttcatttcct	6420
aatcatgcag	atctctagga	attcaaattc	actgttggtt	ttatttcaaa	ccacaaaatt	6480
agcatgccat	taaatactat	atataaacag	ccactaaatc	agatcattat	ccattcagct	6540
tctccttcac	ttcttctcct	ctactttgga	aaaaaggtaa	gaatctcaga	tataatttca	6600
gtgtatctgc	tactcatctt	tattttggac	taggttaaaa	tgtagaaaga	acataattgc	6660
ttaaaataga	tcttaaaaa	aagggtgttt	aagataagg	ttacactatt	ttcagcagat	6720
atgttaaaaa	atagaagtga	ctataaatat	ttgataaaaa	ttatagtgc	tgcaaatgtt	6780
ttaggaatat	aataagatat	aataacagtg	gttgctattt	tcttttagcac	aagactagtt	6840
aacaggctgt	attaaaagat	cttttcttga	attaaatatt	ttcaatttga	ttaaacctac	6900
ctcagccata	aaggcaagca	catttcattt	atactatggg	gatttgaata	atttactg	6960
aagaagctct	accaacaaaa	agtttataga	gctatcatat	ttagtcaaga	gataaagagg	7020
gttggttagga	tatatatgct	atgtgaaagg	tattttataa	agaagagtat	atttatcaaa	7080
atcttctcaag	aacatccaaa	tttcaagttt	atcattttatc	ttacaatatt	tcaaaaaatat	7140

taaaaatagat	acatgaaata	cagaagtaaa	ttaaagagaa	agtattttac	ttggtaaaaa	7200
aatttctaggt	tggacagaga	gtgccaggaa	acaaaaacaa	tgaaaaatgt	gacctgacag	7260
gaattatagc	tcaaagtata	gtagtaagta	atgaaatggc	ttaaaaattg	gtatataaaa	7320
tgctagtatt	aaaataaaca	aatgcaata	atatcctccc	tacatgtaat	gaatttctagg	7380
tattatgatt	atgctctttt	ttgaagtctt	gacaataaaa	atTTTTTTtag	aagtttatag	7440
gcatcttgaa	taaagtgaaa	caaattaaga	attagtatcc	atgagaaaaa	tatagaacaa	7500
ttttcctaata	ttagtttgaa	aatctgggat	tgaagatgtg	tgtcaagaga	tgttggtggc	7560
aagaacattt	ttttttcaag	aacttataaa	aatgcaacaa	aacaaacat	ttaatacatt	7620
ttggtcaaaa	tcaataatgt	atTTTTTTt	atgctccaag	gagcataaaa	ttgggggactg	7680
ggcaagagaa	actgacaccc	tggtaaatta	ccaagagata	agtacacagt	tactatagta	7740
gaaaataagc	atagtgtatg	atctctaaaa	ttatgtgaga	caaaggagag	atgacattag	7800
gcatgtgggg	atgaagactg	agtagagaa	aaacaatcta	atcagtccaa	gaaaacatct	7860
cgatcagtgg	aacaaataga	agaaatgcta	aatgaaaca	gaagtcttac	tggaaataaaa	7920
agatatgcat	aagacaaaaa	ttcatgaaaa	tcacttagtt	tagcagagaa	aagataaaaa	7980
taaagtatga	ccttcttcat	atacattggt	tgatcatatg	cacctcaata	aaactgagtc	8040
tccaacagaa	atgaaacatt	aatatTTTT	tcactgctct	aatcccagaa	tctaagcgat	8100
atctggcaat	aaaaataata	aatatataatt	ttttaataaaa	tgaatcaacc	acttaattttt	8160
tctgtaaata	tctgtaaactt	ctcttctgtc	tttccaaaaa	cactcataag	tactgtgaat	8220
gagatgaaaa	agagtgaagt	aggatatagg	ctgttagcag	aaaacatctg	aatggctggc	8280
agtgaacat	taacttgaaa	tgtaaagatta	atgagtaata	gtaaatttta	accttgcca	8340
tatgataaaa	tgttcattaa	tatttttcta	gaatacaggg	ctttttgttt	ttgccatgag	8400
gtttgcagga	tcttggttcc	ctgaccaggg	atcaaacctg	cacaccaggg	atcaaacctg	8460
cactcccctg	gaagcatgga	gtcttgga	tttgtattat	acactatctt	tggttccttt	8520
taaagggaag	taattttact	taaataagaa	aatagattga	caagtaatac	gctgtttcct	8580
catcttccca	ttcacaggaa	tcgcggatcc	tcgaggatcc	ggacccttcc	ctattcttgt	8640
aagtctaaat	ttactaactg	tgctgtttaa	cttctgatgt	ttgtatgata	tttgagtaat	8700
taagagccct	acaaaaaaat	caataatgaa	tggttccaaa	ataagcatag	ctgagattaa	8760
tgattctcag	cattagttat	aaatagaata	agctggaaaa	ccttcacctc	ccctccacca	8820
ccagatctca	atgtctaggc	ttacccatgg	agattctgat	taactgttct	ttctatgtag	8880
aagaaactta	ttgggaagaa	ataatataat	ggactatgat	ttaattggtc	tgttgagaat	8940
ttagatgaag	gggattaagt	tacaataaag	ccagaattta	acttgataat	ctcatttggc	9000
taagaataac	aaacctaaga	aggtttgcta	ttttctacaa	ttttgaagtt	ttccttatgc	9060
acaattattt	caccacatga	ctcatttcac	atcttgtttt	tgatatatga	gcatatgagg	9120
gcaaaatact	gaagatgctt	atttcaatac	tcagggaaaa	ttttcttgcc	aaaaggcaag	9180
aattgtataa	ttcatttact	tattttatatt	tttttaattt	ttaagggtcta	agaggatttc	9240
aaagtgaatg	ccccctcctc	acttttggtt	agcttttagga	gattggaggc	agactgatca	9300
tttttatagt	taatatcttt	tacatttcac	cttcctggat	aagccccaat	agtagcaatt	9360
tctatcagta	taccagcata	aagattagtt	ttaaatttat	tttcagtgat	tgactgttat	9420
ttactgacct	gaaattatgt	atctgttata	tttcaaataa	tgcaaaactg	tatatatatg	9480
gtgttgacag	atttgattgg	ttttctttca	attgcctata	tccttattat	tgattgtaat	9540
catttataga	aaaaacaaaa	taatttctta	tacttttatg	taaacctgtt	agagcttatt	9600
ttaaagatca	actgcattca	catttctaata	ctagtcatta	tgagcttcaa	ttgttttatc	9660
tcacttaaaa	tttatataatt	gtcttttaata	tcattgagtca	aaatacaatc	tcacagtcca	9720
gatatgggac	ttaaaagggg	aatagcatat	agttttgata	ttcttaaaga	tatacatctt	9780
tttgtgatca	tgattcagca	gacattttta	taaaacaatt	ccaagtgagc	cgacacttgg	9840
tcctagagga	atTTTTTataa	ccttaagata	aggcacagca	tgggtgtttt	gtaataagat	9900
ttcttttatg	aaaaagtcac	acaaaaattg	gaaatgggg	gagatgaaga	gttataacat	9960
ataactaaat	ggacatttgt	tctctattcc	acagaattga	ctgcgactgg	aaatatggca	10020
acttttcaat	ccttgcatca	tgctactaag	ataattttta	aatgagtata	catggaacaa	10080
aaaatgaaac	tttatttcctt	tatttatatt	atgctttttc	atcttaattt	gaatttgagt	10140
cataaaccat	atactttcaa	aatgttaatt	caacattagc	ataaaagttc	aattttaact	10200
tggaaatatc	atgaacatat	caaattatgt	ataaaaaata	tttctggaat	tgtgattatt	10260
atttctttta	gaaatctattt	cctaaccagt	cattttcaata	aattaaccct	taggcatatt	10320
taagttttct	tgtctttatt	atatttttaa	aaatgaaatt	ggtctcttta	ttgttaactt	10380
aaatttatct	ttgatgttaa	aaatagctgt	ggaaaattaa	aattgaatag	aattctttga	10440
attgagttcc	aaaggatatc	aaaaagtgag	ggaaaagata	gggtgagcct	atgctgcata	10500
tgtccttaga	aagtcttggt	ttataacctg	tacctaagtt	aaacaattat	acttgttcct	10560

ttcactctcg	aaagtaccca	gcattggatg	ttaaatttta	tagtcatcct	agacaaaaaa	10620
aaaaaaaaaa	acaaacaacc	ctcaaagtgt	atatctgaat	cacagctcta	cagtgtggta	10680
gctaagtgg	gctgtgtaag	ttagtctcca	agagattcca	tttctacatt	tataaacagt	10740
caatttaagg	tgttttattg	aagttttaat	gtgaaaagtg	cactatatgg	tgcattgatag	10800
gagttcctgg	ttgaatctca	tttctgacat	cactgacacc	agtgcagcaa	ggactagtgt	10860
tacaatcaga	aggagctgag	ttgtgtaatt	ttagccatta	atgcccaga	gactagaact	10920
tacacaaagc	tctaatatcc	attgtctctg	tctgtggagt	aattatttca	ttgccatgaa	10980
ttatctgtct	gtcatatcct	gcatttttat	acatgattca	gttcccttca	gttcacacaa	11040
tgacttgtct	aatttcatct	ttcctgcatc	ctccatgttt	tcctcacttc	aggattaagt	11100
gaagccgtac	ttaggcacia	tatttcttat	ctttaaagaa	aaattccatc	tttgagagtt	11160
gttattgttc	agtcactagg	tcatgtccaa	ctctttgtga	ccccatgcac	tgcagcatgc	11220
caggcttccc	tgcccttgcg	tctctcctgg	agtttgctca	gactcatgta	gattgagtcg	11280
gtgatggat	ccaactatct	catcaactgt	tgtgcccttc	tcctcctacc	ctcagtcctt	11340
accagcatca	gagtcctttct	cagattcttc	aggttattat	ataacaacta	tcataaaagg	11400
agtatctaaa	tggctgtgtc	cattatttca	catgttattc	tctctttaac	ttgctccaat	11460
cccaatttta	tccttatggg	aactgcttta	ttgaagatca	ccaacaactt	ttattttact	11520
aatcgttttg	ttttacccaa	cctctcagtg	agtgttatga	ggtagagttg	actatttctt	11580
cattttgaaa	tattacgctt	catttcatct	gatataccta	agctcataag	gtgtgggttt	11640
tctcttaact	cactagacac	ttctttgaag	tctctcttct	ggcattttct	ccttttccaa	11700
aattttaatg	gttggagtac	cctagatttt	agccttaatt	tgtttgatgt	tgttcagttc	11760
cattctcagc	tcagagcttc	caactgtatg	tctccaaact	tactcgtttt	gtaaactcca	11820
aactcatgca	ctcaactgca	ttcttgacct	ccacactgaa	ttatctaatt	aatgtcctaa	11880
atctggcatg	accaagcata	catttttgtc	tgaatccagt	ccccacttg	ctcaaaattt	11940
aattaaacgt	aattcagtta	caaaggcagc	tgatattgta	tgcaatagac	ctgaatggga	12000
acttcacaaa	agaagttatc	ttaattgtca	ataaaaacat	gaaaaatact	ctacatcatc	12060
aatcttcaga	aaaatgcaaa	ttaaagggtgc	ctaataatat	catgacacaa	cogtcagaat	12120
gactgaaatg	aaaagaattg	taatacagtt	cagttcagtt	cagttactca	gtcgtctcca	12180
actctttgtg	accccatgaa	ctgcagcatg	acagaccttc	ctgtccatca	ccaactccca	12240
gagtttactc	agactatgtc	cattgagttg	atgatgccat	ccaaccatct	catcctctgt	12300
cgtcccttcc	tcctcctgcc	ctcagtcctt	cccagcatca	gggtcttttc	caatgagtc	12360
gctcttcgca	tcaggtggct	aaagtatttg	agtttcagct	tcaacatcag	tccttcta	12420
taacacccag	gactgatctc	ttttaggatg	gactagttgg	atctccttgc	agtccaagg	12480
actctcaaga	gtcttctcca	acaccacagt	tcaaaagcat	caattccttg	gcactcagct	12540
ttccttatag	tccatgtctc	acatccacac	atgactattg	gaaaaaccat	agccttgact	12600
aggtagacct	ttgttgacaa	agtaatgtct	ctgcttttta	atatgttgtc	tagattggtc	12660
ataactttcc	ttccaagaag	taattgtctt	ttaatttcat	ggctgcagtc	accatctgca	12720
gtgattttgg	agcccaaaaa	tataaagtca	gctgctgttt	ccactgttgc	cccatctacc	12780
ccatctatct	gccatgaagt	gatgggactg	gatgccacta	tcttagtttt	ctgaatgttg	12840
agctttaagc	cagccttttt	actctcctct	ttcactttca	tcaagaggct	ctttagttcc	12900
tcttcacttt	ctgccataag	gggtgtgtca	tctgcataat	tgaggttatt	gatatttctc	12960
ttggcaattt	tgattccagc	ctgcacttct	tccagcccag	tgtttctcat	gatgtactct	13020
gcatataaat	taaataagca	gagtgacaat	atacagcctt	gacatactct	ttttcctatt	13080
tggaaccagt	ctgttggtcc	atgtccagtt	ctaactgttg	tttcttgacc	tgcatacagg	13140
tttctcaaga	ggcaagtccg	gtgggtctgg	attctcacct	gtttcagaat	tttccacagt	13200
ttattgtgat	ccacacagtc	aaaggctttg	gcatagccaa	taaagcagaa	agagatgttt	13260
ttctggaact	ctcttacttt	tttgatgatc	cagtggatgt	tggaattttg	atctctggtt	13320
cctctgcctt	ttctaaaacc	agctttaaca	tctggaagtt	catggttcac	gtaatacaaa	13380
atgtaataca	aaatgtctgc	aaaaacaaag	gaatgaaaag	taatgctaaa	aaatgtta	13440
atttacagaa	atttttatag	tagtaaagaa	ttcacctgca	atacaggaga	accgggttag	13500
atccctgggt	tggaaagacct	cctggagaag	gaaatggcta	cccaatctag	tattcttctc	13560
tggaagaagg	aagaatggac	agagaagccc	agcgggctat	ggccatcgg	gtcacaaaga	13620
gtcagaagct	accttgacac	cagcaagcac	ggcgcgcgcg	cgtgcacaca	cacacacaca	13680
cacacacaca	gacacacaca	cactctaaaa	catttaccac	agcttgtcca	atggaaaatc	13740
aaaaagccag	caatttaaga	tgacatcagg	taccactgtc	caggtaagcc	tcagaacaca	13800
atgaccagta	agaagcaaag	tgccatatga	gcaactcgaa	tttttgcaat	gttacctaag	13860
agcttccatt	tttataatgc	aaaagaattt	catatgggga	aattgtatta	gataaccctg	13920
aatgaggagc	aagatatagt	caaagtaaga	tgctctagta	ctatttttta	taagcatgat	13980

ttgttcagcc	aaaggttttt	tcccatatgg	ccaatgaact	gaaatatgca	gtcctgagat	14040
ttgcatatat	ttctagctga	aaccaagtaa	ataatatcct	caagaaagaa	atcaatagaa	14100
aagttggatg	aagagtacaa	taaagggacc	aaaaatattc	agaaataaga	actagaggag	14160
atattgggaa	atccctggtg	agtccagttt	aggattttgt	actttcactg	cagttggcat	14220
ggatataatc	cctcactggg	gaactaagat	cccataagct	gtgttggatt	gccaaaaaaa	14280
taaatattaa	gagatatcat	tcatagaata	ttttaaagat	atttttagaga	agaggaaatt	14340
aaggatgtga	gaatttgat	tactttttca	agatactaaa	gctatttaga	gatagagctg	14400
ttactaaaaa	cttcagtttc	ctaaaaatta	tttgaagcac	tgtttaataa	attccaaaat	14460
atagaggaag	gaaaacaaaa	tactgaggat	tcatataatg	attcagattt	agaaacaata	14520
taacacagaa	ttagtgaatt	ctgacaaaat	attaggtagg	agtagatagt	tcagcattac	14580
tcgtatagat	ggagtattta	atcctttcca	tgagattatc	caaatataat	aatttcgtat	14640
ctatgtgaag	tataactatt	aagattactt	tataaagtaa	atcaagaacc	agagaataag	14700
aaaaatgttt	tgtgaaccag	cagatactat	gaacacataa	aactcagaac	cctgattcct	14760
aagacacaca	gctaactcctg	attattcttc	ctttacatgt	gaccatagaa	cttcacacaa	14820
gttcaagata	catttggtga	gcacatcagt	atcagttcag	tcactcagtc	atgtccgaat	14880
ctttgtgacc	ttgtggactg	cagcacgcca	ggctttcctg	tccaccacca	acccttggag	14940
cttactcaaa	ctcatgtcca	ttgagtcagt	gatcccatcc	aaccatctca	tcctctgtca	15000
tcctcttctc	ctgccttcaa	tctttcccag	acattggagt	cttttccaat	gagtcagatc	15060
ttcacattag	gtggccaaag	tataggagtt	tcagcttcag	catcaatcct	tccaatgaat	15120
attccttgat	gtaccccttt	cgcagtttgg	aaccagtcctg	ttgttccatg	tcagtttcta	15180
actgctgctt	ctggacctgt	atacagattt	ctcaggaggc	aggtaaagtg	gtctggtatt	15240
cccactctctt	gaagaatttt	ccacagttta	ttgtgatcca	cacaatcaaa	ggcttttagcg	15300
tagtcaataa	agcagatggt	tttctggaac	tctcgtgctt	ttttgatgat	ccaatggatg	15360
ttggcaattt	gatctctggt	tcctctgcct	tttctaaatc	cagcttgaac	atctggaagt	15420
tcatgggtcca	cgtactgttg	aagcctggct	tggagaattt	tgagagttat	tttgctagca	15480
tgtgagatga	gtgcaatcat	gtgggtggtt	gaacatactt	tgctattgct	tttctttggg	15540
attgtggcag	tcctgtggcc	actgctgagt	tttccaaatt	tgctgacata	ttgagtgcag	15600
cactttcaca	gcatcacctt	ttaagatttg	aaatagctca	actggaattc	catcacctcc	15660
actagctttg	ttcatagtga	ggctttctaa	ggccgtttga	ctttgcattc	cagggtgtct	15720
ggctctaggt	gagtgatccg	ttgacctgca	gcggccggtc	gaccggccgc	gaattcttga	15780
agacgaaagg	gcctcgtgat	acgcctattt	ttataggtta	atgtcatgat	aataatggtt	15840
tcttagacgt	caggtggcac	ttttcgggga	aatgtgcgcg	gaacccttat	ttgtttattt	15900
ttctaataac	attcaaatat	gtatccgctc	atgagacaaat	aaccctgata	aatgcttcaa	15960
taataattgaa	aaaggaagag	tatgagtatt	caacatttcc	gtgtcgccct	tattcccttt	16020
tttgcggcag	tttgctttcc	tgtttttgct	caccagaaa	cgctggtgaa	agtaaaagat	16080
gctgaagatc	agttgggtgc	acgagtgggt	tacatcgaa	tggtatctcaa	cagcggtgaag	16140
atccttgaga	gttttcgccc	cgaagaacgt	tttccaatga	tgagcacttt	taaagttctg	16200
ctatgtggcg	cggatattatc	ccgtgttgac	gccgggcaag	agcaactcgg	tcgccgcata	16260
cactattctc	agaatgactt	ggttgagtac	tcaccagtca	cagaaaagca	tcttacggat	16320
ggcatgacag	taagagaatt	atgcagtgct	gccataacca	tgagtataaa	cactgcggcc	16380
aacttacttc	tgacaacgat	cggaggaccg	aaggagctaa	ccgctttttt	gcacaacatg	16440
ggggatcatg	taactcgcct	tgatcgttgg	gaaccggagc	tgaatgaagc	cataccaaac	16500
gacgagcgtg	acaccacgat	gcctgcagca	atggcaacaa	cgttgcgcaa	actattaact	16560
ggcgaactac	ttactctagc	ttcccggcaa	caattaatag	actggatgga	ggcggataaa	16620
gttgacaggac	cacttctgcg	ctcggccctt	ccggctggct	ggtttattgc	tgataaatct	16680
ggagccgggtg	agcgtgggtc	tcgcgggtatc	attgcagcac	tggggccaga	tggttaagccc	16740
tcccgtatcg	tagttatcta	cacgacgggg	agtcaggcaa	ctatggatga	acgaaataga	16800
cagatcgctg	agataggtgc	ctcactgatt	aagcattggt	aactgtcaga	ccaagtttac	16860
tcatatatac	tttagattga	tttaaaactt	catttttaat	ttaaaaggat	ctaggtgaag	16920
atcctttttg	ataatctcat	gaccaaaate	ccttaacgtg	agttttcgtt	ccactgagcg	16980
tcagaccccg	tagaaaagat	caaaggatct	ctttgagatc	ctttttttct	gcgcgtaatc	17040
tgctgcttgc	aaacaaaaaa	accaccgcta	ccagcggtagg	tttgtttgcc	ggatcaagag	17100
ctaccaactc	tttttccgaa	ggtaactggc	ttcagcagag	cgcagatacc	aaatactgtc	17160
cttctagtgt	agccgtagtt	aggccaccac	ttcaagaact	ctgtagcacc	gcctacatac	17220
ctcgtctctg	taatcctgtt	accagtggct	gctgccagtg	gcgataagtc	gtgtcttacc	17280
gggttggact	caagacgata	gttaccggat	aaggcgcagc	ggtcgggctg	aacggggggt	17340
tcgtgcacac	agcccagctt	ggagcgaacg	acctacaccg	aactgagata	cctacagcgt	17400

gagctatgag	aaagcgccac	gcttcccga	gggagaaagg	cggacaggta	tccggttaagc	17460
ggcagggtcg	gaacaggaga	gcgcacgagg	gagcttccag	ggggaaacgc	ctggtatctt	17520
tatagtcctg	tcgggtttcg	ccacctctga	cttgagcgtc	gattttttgtg	atgctcgtea	17580
ggggggcgga	gcctatggaa	aaacgccagc	aacgcggcct	ttttacggtt	cctggccttt	17640
tgctggcctt	ttgctggcct	tttgctcaca	tgctctttcc	tgcgttatcc	cctgattctg	17700
tggataaccg	tattaccgcc	tttgagttag	ctgataccgc	tcgccgcagc	cgaacgaccg	17760
agcgcagcga	gtcagttagc	gaggaagcgg	aagagcgctg	acttccgcgt	ttccagactt	17820
tacgaaacac	ggaaaccgaa	gaccattcat	gttggttgctc	aggtcgcaga	cgttttgcag	17880
cagcagtcgc	ttcacgttcg	ctcgcgtatc	ggtgattcat	tctgctaacc	agtaaggcaa	17940
ccccgccagc	ctagccgggt	cctcaacgac	aggagcacga	tcatgcgcac	ccgtcagatc	18000
cagacatgat	aagatacatt	gatgagtttg	gacaaaccac	aactagaatg	cagtgaaaaa	18060
aatgctttat	ttgtgaaatt	tgtgatgcta	ttgctttatt	tgtaaccatt	ataagctgca	18120
ataaacaagt	taacaacaac	aattgcattc	attttatggt	tcaggttcag	ggggagggtg	18180
gggaggtttt	ttaaagcaag	taaaacctct	acaaatgtgg	tatggctgat	tatgatctct	18240
agtcaaggca	ctatacatca	aatattcctt	attacacccct	ttacaaatta	aaaagctaaa	18300
ggtacacaat	ttttgagcat	agttattaat	agcagacact	ctatgcctgt	gtggagtaag	18360
aaaaaacagt	atgttatgat	tataactggt	atgcctactt	ataaagggtta	cagaatattt	18420
ttccataatt	ttcttgata	gcagtgcagc	tttttccctt	gtggtgtaaa	tagcaaagca	18480
agcaagagtt	ctattactaa	acacagcatg	actcaaaaaa	cttagcaatt	ctgaaggaaa	18540
gtccttgggg	tcttctacct	ttctcttctt	ttttggagga	gtagaatggt	gagagtcagc	18600
agtagcctca	tcatcactag	atggcatttc	ttctgagcaa	aacaggtttt	cctcattaaa	18660
ggcattccac	cactgctccc	attcatcagt	tccatagggt	ggaatctaaa	atacacaaac	18720
aattagaatc	agtagtttaa	cacattatac	acttaaaaaat	tttatattta	ccttagagct	18780
ttaaatctct	gtaggtagtt	tgtccaatta	tgtcacacca	cagaagtaag	gttccttcac	18840
aaagatccgg	accaaagcgg	ccatcggtgc	tccccactcc	tgcaagtccg	gggcatggat	18900
gcgcggatag	ccgctgctgg	tttccctggat	gccgacggat	ttgcactgcc	ggtagaactc	18960
cgcgagggtcg	tccagcctca	ggcagcagct	gaaccaactc	gcgaggggat	cgagcccggg	19020
gtggggcgaag	aactccagca	tgagatcccc	gcgctggagg	atcatccagc	cggcgtcccc	19080
gaaaacgatt	ccgaagccca	acctttcata	gaaggcggcg	gtggaatcga	aatctcgtga	19140
tggcagggtg	ggcgtcgctt	ggtcgggtcat	ttcgaaacccc	agagtcccg	tcagaagaac	19200
tcgtcaagaa	ggcgatagaa	ggcgatgcgc	tgcgaaatcgg	gagcggcgat	accgtaaagc	19260
acgaggaagc	ggtcagccca	ttcgcccgcca	agctcttcag	caatatcacg	ggtagccaac	19320
gctatgtcct	gatagcggtc	cgccacacccc	agccggccac	agtcgatgaa	tccagaaaag	19380
cggccatttt	ccaccatgat	attcggaag	caggcatcgc	catgggtcac	gacgagatcc	19440
tcgccgtcgg	gcattgcgcg	cttgagcctg	tcggaacagtt	cggctggcgc	gagccctga	19500
tgctcttcgt	ccagatcatc	ctgatcgaca	agaccggctt	ccatccgagt	acgtgctcgc	19560
tcgatgcgat	gtttcgcttg	gtggtcgaat	gggcaggtag	ccggatcaag	cgtatgcagc	19620
cgcgcattg	catcagccat	gatggatact	ttctcggcag	gagcaagggtg	agatgacagg	19680
agatcctgcc	cggcacttc	gcccataagc	agccagtccc	ttcccgttc	agtgacaacg	19740
tcgagcacag	ctgcgcaagg	aacgcccgtc	gtggccagcc	acgatagccg	cgtgcctcg	19800
tctgcagtt	cattcagggc	accggacagg	tgggtcttga	caaaaagaac	cgggcgcccc	19860
tgcgctgaca	gccggaacac	ggcggcatca	gagcagccga	ttgtctgttg	tgcccagtea	19920
tagccgaata	gcctctccac	ccaagcggcc	ggagaacctg	cgtgcaatcc	atcttgttca	19980
atcatgcgaa	acgatcctca	tctgtctct	tgatcagatc	ttgatccctt	gcgccatcag	20040
atccttggcg	gcaagaaagc	catccagttt	actttgcagg	gcttcccaac	cttaccagag	20100
ggcgccccag	ctggcaattc	cggttcgctt	gctgtccata	aaaccgcccc	gtctagctat	20160
cgccatgtaa	gcccactgca	agctacctgc	tttctctttg	cgtttgcgtt	ttcccttgte	20220
cagatagccc	agtagctgac	attcatccgg	ggtcagcacc	gtttctgcgg	actggctttc	20280
tacgtgttcc	gcttccctta	gcagcccttg	cgccttgagt	gcttgcgga	gcgtgaagct	20340
ttttgcaaaa	gcctaggcct	ccaaaaaagc	ctcctcacta	cttctggaat	agctcagagg	20400
ccgaggcggc	ctcggcctct	gcataaataa	aaaaaattag	tcagccatgg	ggcggagaat	20460
ggcggaact	ggcggaagt	aggggcggga	tgggcggagt	taggggcggg	actatggttg	20520
ctgactaatt	gagatgcattg	ctttgcatac	ttctgcctgc	tggggagcct	ggggactttc	20580
cacacctggt	tgctgactaa	ttgagatgca	tgctttgcat	acttctgcct	gctggggagc	20640
ctggggactt	tccacaccct	aactgacaca	cattccacag	ccggatctgc	aggacccaac	20700
gctgcccag	atgcgcgcg	tgcggtgct	ggagatggcg	gacgcgatgg	atatgttctg	20760
ccaagggttg	gtttgcgcac	tcacagttct	ccgcaagaat	tgattggctc	caattcttgg	20820

agtgggtgaat	cggtttagcga	ggtgcccgcg	gcttccattc	aggtcgaggt	ggccccggtc	20880
catgcaccgc	gacgcaacgc	ggggaggcag	acaaggtata	gggcggcgcc	tacaatccat	20940
gccaaaccgt	tccatgtgct	cgccgaggcg	gcataaatcg	ccgtgacgat	cagcgggtcca	21000
atgatcgaag	ttaggctggg	aagagccgcg	agcgatcctt	gaagctgtcc	ctgatgggtcg	21060
tcatctacct	gcctggacag	catggcctgc	aacgcgggca	tcccgatgcc	gccggaagcg	21120
agaagaatca	taatggggaa	ggccatccag	cctcgcgtcg	cgaacgccag	caagacgtag	21180
cccagcgcgt	cggccgccat	gccggcgata	atggcctgct	tctcgccgaa	acgtttgggtg	21240
gcgggaccag	tgacgaaggc	ttgagcgagg	gcgtgcaaga	ttccgaatac	cgcaagcgac	21300
aggccgatca	tcgctcgcgct	ccagcgaaag	cggctcctcg	cgaaaatgac	ccagagcgct	21360
gccggcacct	gtcctacgag	ttgcatgata	aagaagacag	tcataagtgc	ggcgacgata	21420
gtcatgcccc	gcgcccaccg	gaaggagctg	actgggttga	aggctctcaa	gggcatcggt	21480
cgaggaactt	tggcgcgctt	tgctgtgcga	caggctcacg	tctaaaagga	aataaatcat	21540
gggtcataaa	aattatcacg	ttgtcggcgc	ggcgacggat	gttctgtatg	cgctgttttc	21600
cgttggccgt	tgctgtctgg	tgatctgcct	tctaaatctg	cacagccgaa	ttgcgcgagc	21660
ttggttttgc	tgaaaccgac	acacagcaac	tgaataccag	aaagaaaatc	actttgcctt	21720
tctgacatca	gaagggcaga	aatttgccgt	tgaacacctg	gtcaatacgc	gttttgggtga	21780
gcagcaatat	tgcgcttcga	tgagccttgg	cgttgagatt	gatacctctg	ctgcacaaaa	21840
ggcaatcgac	cgagctggac	cagcgcattc	gtgacaccgt	ctccttcgaa	cttattcgca	21900
atggagtgtc	attcatcaag	gacngcctga	tcgcaaattg	tgctatccac	gcagcggcaa	21960
tcgaaaaccc	tcagccggtg	accaatatct	acaacatcag	ccttggtatc	ctgcgtgatg	22020
agccagcgca	gaacaaggta	accgtcagtg	ccgataagtt	caaagttaaa	cctgggtgtt	22080
ataccaacat	tgaaacgttg	atcgaaaacg	cgctgaaaaa	cgctgctgaa	tgtgcggcgc	22140
tggatgtcac	aaagcaaatg	gcagcagaca	agaaagcgat	ggatgaactg	gcttcctatg	22200
tccgcacggc	catcatgatg	gaatgtttcc	ccggtgggtg	tatctggcag	cagtgccgtc	22260
gatagtatgc	aattgataat	tattatcatt	tgcggggtcct	ttccggcgat	ccgccttggt	22320
acggggcggc	gacctcgcg	gttttcgcta	tttatgaaaa	ttttccgggt	taaggcggtt	22380
ccgttcttct	tcgtcataac	ttaatgtttt	tatttaaaat	accctctgaa	aagaaaggaa	22440
acgacagggt	ctgaaagcga	gctttttggc	ctctgtcggt	tcctttctct	gtttttgtcc	22500
gtggaatgaa	caatggaagt	caacaaaaag	cagacgtatc	tagacacgtc	tgaagctagc	22560
ttcgaggaac	tttcggcggc	tttgctgtgc	gacaggctca	cgtctaaaag	gaaataaatc	22620
atgggtcata	aaaattatca	cgttgtcggc	gcggcgacgg	atgttctgta	tgcgctgttt	22680
tccgttggcc	gttgctgtct	ggtgatctgc	cttctaaatc	tgacacggcg	aattgcgcga	22740
gcttggtttt	gctgaaaccg	acacacagca	actgaatacc	agaaagaaaa	tcactttgcc	22800
tttctgacat	cagaagggca	gaaatttgcc	gltgaacacc	tggtcaatac	gcgttttgggt	22860
gagcagcaat	attgcgcttc	gatgagcctt	ggcggttgaga	ttgataacct	tgctgcacaa	22920
aaggcaatcg	accgagctgg	accagcgcac	tcgtgacacc	gtctccttcg	aaacttattcg	22980
caatggagtg	tcattcatca	aggacngcct	gatcgcaaatt	ggtgctatcc	acgcagcggc	23040
aatcgaaaac	cctcagccgg	tgaccaatat	ctacaacatc	agccttggtg	tcctgcgtga	23100
tgagccagcg	cagaacaagg	taaccgtcag	tgccgataag	ttcaaagtta	aacctgggtg	23160
tgataccaac	attgaaacgt	tgatcgaaaa	cgcgctgaaa	aacgctgctg	aatgtgcggc	23220
gctggatgtc	acaaagcaaa	tggcagcaga	caagaaagcg	atggatgaac	tggcttccta	23280
tgtccgcacg	gccaatcatga	tggaaatgtt	ccccgggtgg	gttatctggc	agcagtgccg	23340
tcgatagtat	gcaattgata	attattatca	tttgcgggtc	ctttccggcg	atccgccttg	23400
ttacggggcg	gcgacctcgc	gggttttctgc	tatttatgaa	aattttccgg	tttaaggcgt	23460
ttccgttctt	cttcgtcata	acttaatgtt	tttatttaaa	ataccctctg	aaaagaaagg	23520
aaacgacagg	tgctgaaagc	gagctttttg	gcctctgtcg	tttcctttct	ctgtttttgt	23580
ccgtggaatg	aacaatggaa	gtcaacaaaa	agcagagcct	atcgatgata	agcgggtcaaa	23640
catgagaatt	c					23651

&lt;210&gt; 3

&lt;211&gt; 2076

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3

ctcgagcaat	ttccactgaa	tttcgccgcc	acaggagacc	ggctggagcg	cccggccccgc	60
gcctcgccctc	tcctccgagc	agccagcgcc	tcgggacgcg	atgaggacct	tggcttgccct	120



gctgtcctc	ggctgcggat	acctgcacca	tgttctggcc	gaggaagccg	agatcccccg	180
cgaggtgatc	gagaggctgg	cccgagtc	gatccacagc	atccgggacc	tccagcgact	240
cctggagata	gactccgtag	ggagtgagga	ttctttggac	accagcctga	gagctcacgg	300
ggtccacgcc	actaagcatg	tgcccagaaa	gcggccctg	cccattcgga	ggaagagaag	360
catcgaggaa	gctgtccccg	ctgtctgcaa	gaccaggacg	gtcatttacg	agattcctcg	420
gagtcagggtc	gacccacagt	ccgccaactt	cctgatctgg	cccccgtag	tggagggtgaa	480
acgctgcacc	ggctgctgca	acacgagcag	tgtcaagtgc	cagccctccc	gcgtccacca	540
ccgcagcgtc	aaggtggcca	aggtggaata	cgtcaggaag	aagccaaaat	taaaagaagt	600
ccaggtgagg	ttagaggagc	atttggagtg	cgctgcgcg	accacaagcc	tgaatccgga	660
ttatcgggaa	gaggacacgg	atgtgaggtg	aggatgagcc	gcagcccttt	cctgggacat	720
ggatgtgggg	atccgtcgac	ctgcagccaa	gcttaaaaca	gctctgggg	tgtaccacc	780
ccagaggccc	acgtggcggc	tagtactccg	gtattgcggt	acccttgtag	gcctgtttta	840
tactcccttc	ccgtaactta	gacgcacaaa	accaagttca	atagaagggg	gtacaaacca	900
gtaccaccac	gaacaagcac	ttctgtttcc	ccggtgatgt	cgatatagact	gcttgcgtag	960
ttgaaagcga	cggatccgtt	atccgcttat	gtacttcgag	aagcccagta	ccacctcgga	1020
gacctcgatg	cgttgcgctc	agcactcaac	cccagagtgt	agcttaggct	gatgagctg	1080
gacatccctc	accggtgacg	gtgggtccagg	ctgcgttggc	ggcctacct	tggctaaccg	1140
catgggacgc	tagttgtgaa	caaggtgtga	agagcctatt	gagctacata	agaatcctcc	1200
ggccccgtgaa	tgcgggcta	ccccacctcg	gagcagggtg	tcacaaacca	gtgattggcc	1260
tgtcgtaacg	cgcaagtccg	tggcggaacc	gactactttg	ggtgtccgtg	tttcctttta	1320
ttttattgtg	gctgcttatg	gtgacaatca	cagattgtta	tcataaagcg	aattggattg	1380
cggccgtoga	cgttggttct	ttttgcagaa	gctcagaata	aacgctcaac	tttggcggcc	1440
ggccccgaat	tcgagctcgc	ccggggatcc	tctagagtcg	acaccatgaa	tcgctgctgg	1500
gcgctcttcc	tgtctctctg	ctgctacctg	cgtctgggtc	gcgccgaggg	ggacccatt	1560
cccaggagagc	tttatgagat	gctgagtgat	cactcgatcc	gctcctttga	tgatctccaa	1620
cgctgctgctg	acggagaccc	cggagaggaa	gatggggccg	agttggacct	gaacatgacc	1680
cgctcccact	ctggaggcga	gctggagagc	ttggctcgtg	gaagaaggag	cctggggtcc	1740
ctgaccattg	ctgagccggc	catgatcgcc	gagtgcaaga	cgcgacccga	ggtgttcgag	1800
atctcccggc	gcctcataga	ccgcaccaac	gccaacttcc	tgggtgtggc	gccctgtgtg	1860
gaggtgcagc	gctgctccgg	ctgctgcaac	aaccgcaacg	tgcagtgccg	ccccaccag	1920
gtgcagctgc	gacctgtcca	ggtgagaaa	atcgagattg	tgcggaagaa	gccaatcttt	1980
aagaaggcca	cggtagcgct	ggaagaccac	ctggcatgca	agtgtgagac	agtggcagct	2040
gcacggcctg	tgacctgata	accggaagct	ctcgag			2076

&lt;210&gt; 4

&lt;211&gt; 10

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetically generated oligonucleotide

&lt;400&gt; 4

agctctcgag

10

&lt;210&gt; 5

&lt;211&gt; 10

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetically generated oligonucleotide

&lt;400&gt; 5

aattctcgag

<210> 6  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetically generated oligonucleotide

<400> 6  
aattgctcga gc 12

<210> 7  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetically generated primer

<400> 7  
tgtgctcctc tccatgctgg 20

<210> 8  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetically generated primer

<400> 8  
tggtctgggg tgacacatgt 20